

Dear Half-Mast,

Soldiers are stepping on the radiator fins in their HMMWVs and bending them. I think they should put "NO STEP" signs on HMMWVs, like those found on helicopters. How about you?

SSG N.O.

Dear Sergeant N.O.,

"NO STEP" signs are a great idea! That's because the fins on your HMMWV's radiator and oil cooler protect your HMMWV's engine and transmission from overheating.

Without protection, the fins can bend during PMCS and repair work. And when enough of the fins are bent, the reduced air flow through the radiator and cooler leads to engine and transmission overheating.

So another good idea is to make a fin shield to keep the fins on your HMMWV's radiator straight!

Making the Fin Shield

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Fabricate a fin shield by cutting ³/₄-in plywood using these approximate dimensions:

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Adjust the dimensions to fit your HMMWV. Then, round off the edges and paint the

board to prevent splinters. And be sure to stencil NO STEP on the board.

You'll also see this info on Page D-52 of TM 9-2320-280-20-3 and Page D-26 of TM 9-2320-387-24-2.

3' 10¹/₂"

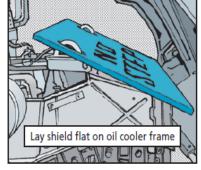
NO STEP

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Using the Fin Shield

Once you've made a fin shield, you can use it right away. Just remove both plate covers and seals from the airlift backets. and slip it over the two lifting rings. Then lay it flat on the oil cooler frame. The rings prevent the shield from sliding onto the raised hood.

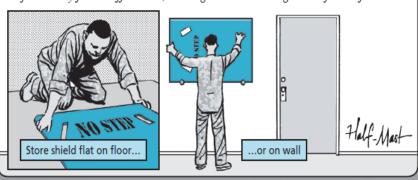
Don't run the engine with the shield in place! It'll block air flow and lead to engine overheating—the very thing your shield is designed to help prevent!

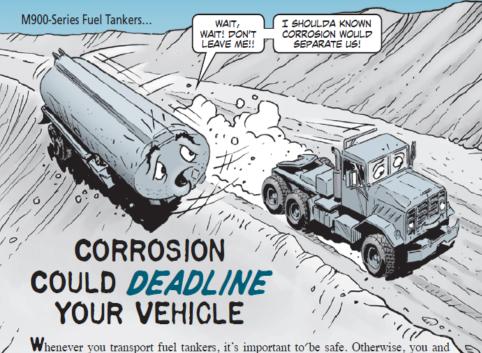


After using your fin shield, replace the eye-hook seals. And even though the board should protect the fins against bending, check for bent fins anyway. Then use the fin-straightening tool, NSN 5120-00-157-2180, if needed.

Storing the Fin Shield

Take care of the fin shield by storing it flat. That keeps it from warping. Lay it on the floor away from traffic areas, or hang it on the wall against a flat surface.





Whenever you transport fuel tankers, it's important to'be safe. Otherwise, you and others near you could have a really bad day. So here's a problem with M900-series fuel tankers that you must know about to keep yourself and others safe while hauling fuel.

A recent inspection found too much corrosion around the upper coupler plate and frame structure. Corrosion build-up weakens the frame structure and can cause the fuel tanker to separate from the prime mover. But you can prevent this from happening.

If your unit has M967A1, M967A2, M967P1, M967A1P1, M967A2P1, M969A1, M969A2, M969A3, M969P1, M969A1P1, M969A2P1, M969A3P1, and M970A1 fuel tankers, inspect each vehicle. TACOM SOUM 13-008 gives you details on what to do. It's available at:

https://tulsa.tacom.army.mil/SAFETY/message.cfm?id=SOUM13-008.html

HERE'S WHAT THE SAFETY MESSAGE HAS TO SAY ABOUT CONTROLLING CORROSION ON YOUR UNIT'S FUEL TANKERS ...

Upper Coupler Inspection

Unbolt and lower the kingpin coupler weldment from the tanker following the instructions in the TM that supports your model. That allows you to inspect the kingpin coupler weldment and the tanker's main frame structure.

Remove any rust or paint flakes on the kingpin coupler weldment. That'll help you determine the actual amount of deterioration.

Use a 0 to 6-in vernier caliper to measure the area and thickness of each cleaned corroded area. The vernier caliper is included in the standard automotive tool set (SATS), NSN 4910-01-490-6453.

The original thickness of the upper coupler plate is .375 inches. The kingpin coupler weldment must measure .319 inches or more for the upper coupler to be usable.

This table will help you figure out the extent of corrosion deterioration and loss of material thickness:

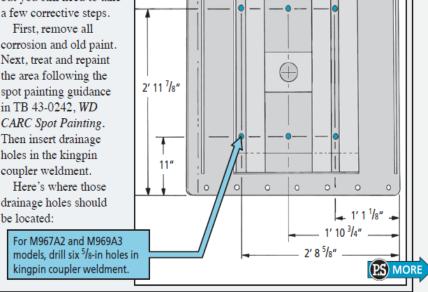
Component	Original thickness (inches)	10 percent loss (inches)	15 percent loss (inches)	50 percent loss (inches)	150 percent repaired thickness (inches)
Upper coupler plate	.375	.338	.319	.188	.563
Upper coupler support cross members	.250	.225	.213	.125	.375

When overall thickness is less than .319 inches, the upper coupler isn't repairable and the tanker is deadlined. You'll have to remove and replace the king coupler weldment to bring your tanker back to a fully mission capable (FMC) status.

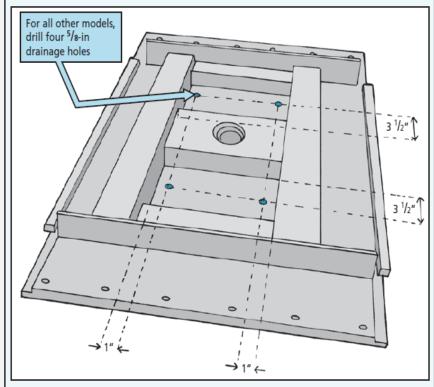
And when overall thickness is .319 inches or more on the upper coupler, it's serviceable, but you still need to take a few corrective steps.

First, remove all corrosion and old paint. Next, treat and repaint the area following the spot painting guidance in TB 43-0242, WD CARC Spot Painting. Then insert drainage holes in the kingpin

Here's where those drainage holes should



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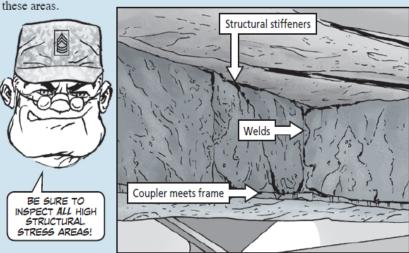
When you order kingpin couplers again, they will already have drain holes. So all you'll have to do is install them.

Tanker Frame Inspection

You'll need to inspect your fuel tanker's frame rails and high structural stress areas, too. Take a good look at the frame area under the upper coupler. Clean the corroded areas and then measure them with the caliper. The material must be .213 inches or more for the frame rails and structural components to be usable. See this table for more info:

Component	Original thickness (inches)	10 percent loss (inches)	15 percent loss (inches)	50 percent loss (inches)	150 percent repaired thickness (inches)
Tanker frame	.250	.225	.213	.125	.375
Tanker cross members	.250	.225	.213	.125	.375

You'll find high structural stress areas at structural stiffeners, where cross members connect with frame rails, and where bottom flanges meet with the beam web and weld joints. Even if you see only a little corrosion, you should still measure



Determine the cross-sectional thickness of the corroded area using the vernier caliper. When the overall material thickness is .213 inches or more on the frame rails and structural components, remove all corrosion and any old paint. Then treat and repaint using TB 43-0242 for guidance.

If the thickness of the frame rails and structural components is less than .213 inches, the tanker is non-mission capable until repairs are made.

Areas that measure between .125 and .212 inches on the frame rails and structural components should be reinforced to .375 inches. The rebuild will require heavier sectional members, including backing plates. Refer to Para 5-5, Repairing Deterioration Caused by Corrosion, in TB 9-2510-242-40. Section IV of the TB gives you info on the equipment and skills necessary to repair the tankers.

If the frame rails and structural components have a thickness of less than .125 inches, the entire structural section, including the frame rails, cross members and structural stiffeners, must be replaced.

Add to Annual PMCS

TACOM LCMC plans to update TM 9-2330-329-14&P, TM 9-2330-330-14&P, TM 9-2330-356-14&P, and TM 9-2330-398-24&P in FY14. The TM changes will include requirements to:

- perform an annual PMCS at the field maintenance level for each coupler plate check identified.
- annually inspect the coupler plate area for corrosion.
- disassemble and clean the potential corrosion problem areas as required.

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LOOKS LIKE THE WOOD PECK ON YOUR MI FLAT RACK HAS HAD IT! SWHEW!S PORTUNATELY I'VE GOT SOME NÉNS FOR YOU SO THIS CAN BE FIXED! SWHEW!S

eed to replace the decking on the M1 flat rack for your PLS? Wood decking kit, NSN 2510-01-582-5403, fits the bill. It replaces NSN 2510-01-582-5398, which is no longer available.

The kit actually contains two sub-kits: apitong wood, NSN 2510-01-582-5408, and plywood, NSN 2510-01-582-5396. Apitong is stronger and more durable than most other woods you can use. It resists rotting and ultraviolet rays, repels water and requires little maintenance.

The boards in these kits are not cut to fit or pre-drilled, though. That means you'll need a carbide saw blade and carbide-tipped drill bits to work with the apitong wood.

Attaching hardware is also not included, so you'll need to order it separately from Figs 3012 and 3015 in TM 9-2320-319-13&P.

If you need to replace the flat rack's rear folding wall, order the wood kit that comes with NSN 2510-01-582-5515.



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ENOUN PABES

Dear Half-Mast,
We have
several different
route clearance
protection vehicles
that have to travel
through the snowy
mountain passes of
Afghanistan. Are tire
chains available for
the Husky, M-ATV,
MaxxPro, M984A4
HEMTT wrecker and
FPI Buffalo?

SSG J.S.

Dear Sergeant J.S.,

You bet! Here's the list of tire chain NSNs you'll need:

Snow Chain, NSN 2540-
01-492-2989
01-593-1152
01-483-2930
01-569-3146
01-483-2930
01-597-3332
01-152-7813
01-152-7813

Half-Mast

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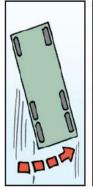




















IF DRIVING A TRACTOR-TRAILER, STEER AWAY FROM THE DIRECTION OF THE SLIDING TRAILER.

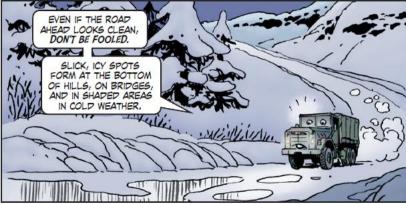
AND DON'T OVERSTEER, STEER JUST ENOUGH TO CORRECT THE SKID,

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ALSO, LOOK AHEAD FOR DANGERS AND KEEP YOUR EYES MOVING, BE READY TO REACT OR STOP AT ALL TIMES, WHEN STOPPING, AIM TO STOP 20 TO 30 FEET SHORT TO ALLOW FOR UNEXPECTED TROUBLE. USE ENOUGH POWER TO HELP YOU AROUND CURVES AND TO HOLD TRACTION—THE ALL-IMPORTANT GRIP YOUR TIRES HAVE ON THE ROAD.

BE SUPER-CAUTIOUS ON SHARP CURVES, IF YOU GO TOO FAST, CENTRIFUGAL FORCE WILL SLING YOU OFF THE ROAD, CREATING A BAD DAY FOR YOU AND YOUR UNIT. SO SLOW DOWN BEFORE GOING INTO A CURVE OR DOWNGRADE. ENGINE DRAG HELPS, TOO. JUST EASE OFF THE THROTILE.



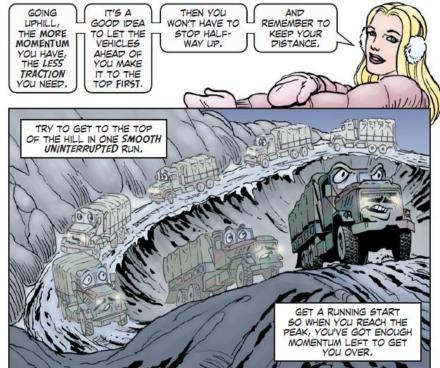


Hills



HOWEVER, YOU CALL THE SHOTS, REMEMBER...

- If momentum is too slow for wheel speed, the result is lost traction and spinning wheels.
- If momentum is too fast for wheel speed, that also results in lost traction and the vehicle skids.
- If momentum is in tune with wheel speed, you have traction and good control.



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Tires





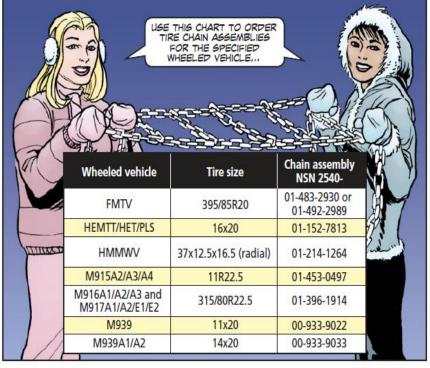






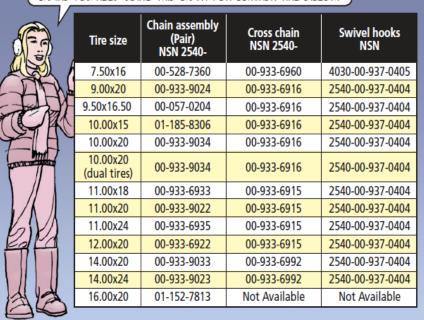






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IF YOUR VEHICLE ISN'T LISTED IN THE FIRST CHART, GET THE CHAINS YOU NEED USING THIS CHART FOR COMMON TIRE SIZES...





FOR MORE INFORMATION,
CONTACT THE DLA
CONTACT CENTER AT
DSN 661-7766/(877)
353-2255 OR EMAIL:
dlacontactcenter@
dla.mil



STILL ALLOW ROOM

FOR SOME CREEP.

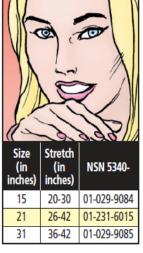


YOU TIGHTEN THEM BY

HAND, USE TIRE STRAPS

TO SNUG DOWN THE

TIRE CHAINS.



HERE'S

SOME INFO

FOR SELECTING

STRAPS ..

Shifting

USE CARE WHEN SHIFTING PURING WINTER PRIVING, ESPECIALLY WHILE DOWNSHIFTING, DOWNSHIFTS CAN BREAK TRACTION, SO MAKE EACH SHIFT AS SMOOTH AS POSSIBLE.

WITH A MANUAL TRANSMISSION, YOU COULD GET OVER THE TOP OF THE HILL USING ONE OR TWO GEARS LOWER THAN YOU'D USE UNDER IDEAL CONDITIONS.

ON A DRY ROAD, YOU MIGHT WANT TO SHIFT DOWN TO A LOWER GEAR TO USE THE ENGINE AS A BRAKE, BUT ON ICE, THAT CAN CAUSE PROBLEMS.

THE ENGINE HOLDING BACK YOUR WHEELS IS APPLYING FORCE TO THEM, JUST AS THE BRAKES WOULD PO. IT CAN THROW YOU INTO A SKIP. SO IF YOU FEEL YOUR VEHICLE START TO SLIDE, SPEED UP UNTIL YOUR WHEELS ARE NO LONGER SLIDING.

Braking







